

PATENT
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Shuji MIYASAKA et al.

Title : SIGNAL PROCESSING DEVICE AND SIGNAL PROCESSING METHOD

Serial No.: filed concurrently

Filed : December 22, 2000

Commissioner of Patents and Trademarks
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to the examination and calculation of the filing fee for this application, please amend the application as follows:

IN THE CLAIMS

Please amend claims 19 and 20 as follows:

--19. (Amended) A portable type apparatus comprising:

an audio signal input section for inputting an encoded audio signal;

a signal processing device [of claim 1] for decoding said encoded audio signal, said signal processing device comprising:

first to Nth sub signal processing sections each of which is given (N × t + i)th frame signals (i and t are integers, N is a natural number, and 0 ≤ i < N) of a first digital signal framed for each predetermined time

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interval and each of which completes a first process
within a period $(N \times T)$ (T is a real number); and
a main signal processing section which converts a
signal processed in said $(i + 1)$ th sub signal
processing section into a second digital signal by
completing a second process within a period T ; and
an audio signal output section for outputting said decoded
audio signal.

20. (Amended) A portable type apparatus comprising:
an audio signal input section for inputting an audio signal;
a signal processing device [of claim 2] for encoding said
audio signal, said signal processing device comprising:
first to N th sub signal processing sections each of
which is given $(N \times t + i)$ th frame signals (i and t are
integers, N is a natural number, and $0 \leq i < N$) of a
first digital signal framed for each predetermined time
interval and each of which completes a first process
within a period $(N \times T)$ (T is a real number);
a main signal processing section which converts a
signal processed in said $(i + 1)$ th sub signal

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processing section into a second digital signal by
completing a second process within a period T;

a distribution section inputting said first
digital signal to one of said first to Nth sub signal
processing sections for each frame interval one after
another; and

a selection section selectively outputting one of
the after-process signal outputted from said first to
Nth sub signal processing sections for each frame
interval one after another to input the signal to said
main signal processing section; and

[an] a memory for holding said encoded audio signal.--

REMARKS

By this preliminary amendment, claims 19 and 20 have been amended. Currently, claims 1-20 are pending in the application. Therefore, the required fees are calculated below: